

<110> Sheppard, Paul O.  
Jelinek, Laura J.

<130> 97-11C2

<150> 09/318,028

<151> 1999-05-25

<150> 09/109.808

<151> 1998-07-02

<150> 60/089.899

<151> 1998-06-17

<150> 60/085.983

<151> 1998-05-19

<150> 60/051.704

<151> 1997-07-03

<160> 24

<170> FastSEQ for Windows Version 3.0

<210> 1

&lt;211&gt; 649

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (104)...(354)

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cgggccaagg ctggggccaa agtgaagtc cagcggcttt ccagcgcttg gccacggcg 60  
ggggccctgg gaccaaaagt ggagcaacc cgttacccta aat atg aaa ggc tgg 115  
Met Lys Gly Trp

10. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

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<210> 3
<211> 64
<212> PRT
<213> Homo sapiens
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<212> PRT
<213> Homo sapiens
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<210> 5  
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<213> Homo sapiens

<400> 5  
Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp Glu Leu  
1 5 10 15  
Glu Trp Glu Ile Ala Gln Val Asp Pro  
20 25

<210> 6  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 6  
 Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser  
 1 5 10 15  
 Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His Ser  
 20 25 30  
 Gly Phe Gly  
 35

<210> 7  
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 <212> DNA  
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<400> 7  
 ctggggcaaa gtgagagtcc agcgggtcttc cagcgcttgg gccacggcgg cggcctggga 60  
 gcagaggtgg agcgacccca ttacgctaaa gatgaaaggc tggggtggc tggccctgct 120  
 tctgggggcc ctgctgggaa ccgcctgggc tcggaggagc agggatctcc actgtggagc 180  
 atgcagggct ctggtggatg aactagaatg ggaaattgcc caggtggacc ccaagaagac 240  
 cattcagatg ggatctttcc ggatcaatcc agatggcagc cagtcagtgg ttgaggtaac 300  
 tgttactgtt cccccaaca aagtagctca ctctggcttt agatgaattt cgatttattt 360  
 aaaaaggacc ttgttttat taggaattga agaaaacaga ttcagaaaaa agttt 415

<210> 8  
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 <212> PRT  
 <213> Homo sapiens

<400> 8  
 Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ser  
 1 5 10

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<400> 9  
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25

10082502-104604

<400> 10  
cgcqctcgaq tcatccaaag ccaga 25

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gcgcgaattc atgaaaggct ggggt 25

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cgcgggatcc tccaaagcca gagtg 25

<400> 13  
ttcatccacc agagccctgc atgctccaca gtggagatcc 40

<400> 14  
gggctctggg ggatgaac 18

<212> DNA  
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<400> 15  
tacctccacc actgactg 18

<210> 16  
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<220>  
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<222> (104)...(649)

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Met Lys Gly Trp  
1  
ggt tgg ctg gcc ctg ctt ctg ggg gcc ctg ctg gga acc gcc tgg gct 163  
Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly Thr Ala Trp Ala  
5 10 15 20  
cgg agg agc cag gat ctc cac tgt gga gca tgc agg gct ctg gtg gat 211  
Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp  
25 30 35  
gaa cta gaa tgg gaa att gcc cag gtg gac ccc aag aag acc att cag 259  
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln  
40 45 50  
atg gga tct ttc cgg atc aat cca gat ggc agc cag tca gtg gtg gag 307  
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu  
55 60 65  
gtg cct tat gcc cgc tca gag gcc cac ctc aca gag ctg ctg gag gag 355  
Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Leu Glu Glu  
70 75 80  
ata tgt gac cgg atg aag gag tat ggg gaa cag att gat cct tcc acc 403

10082502-101901

Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp Pro Ser Thr  
 85 90 95 100  
 cat cgc aag aac tac gta cgt gta gtg ggc cgg aat gga gaa tcc agt 541  
 His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn Gly Glu Ser Ser  
 105 110 115  
 gaa ctg gac cta caa ggc atc cga atc gac tca gat att agc ggc acc 499  
 Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile Ser Gly Thr  
 120 125 130  
 ctc aag ttt gcg tgt gag agc att gtg gag gaa tac gag gat gaa ctc 547  
 Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu Asp Glu Leu  
 135 140 145  
 att gaa ttc ttt tcc cga gag gct gac aat gtt aaa gac aaa ctt tgc 595  
 Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp Lys Leu Cys  
 150 155 160  
 agt aag cga aca gat ctt tgt gac cat gcc ctg cac ata tcg cat gat 643  
 Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Ile Ser His Asp  
 165 170 175 180  
 gag cta tgaaccactg gagcagccca cactggcttg atggatcacc cccaggaggg 699  
 Glu Leu  
 gaaaatgggtg gcaatgcctt ttatatatta tgtttttact gaaattaact gaaaaaatat 759  
 gaaacccaaa gtataaaaaa aaaaaaaaag agagagagag agaacta 806

<210> 17

<211> 182

<212> PRT

<213> Homo sapiens

<400> 17

Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Gly Ala Leu Leu Gly  
 1 5 10 15  
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 Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys  
 35 40 45

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<211> 1069
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (358)...(903)
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Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Val Leu Leu Gly Thr  
5 10 15



tct cac gat gag cta tgaatcactg gagcaagcag cctacaccaa acgtgatgga 943  
Ser His Asp Glu Leu  
180

<210> 19  
<211> 182  
<212> PRT  
<213> Mus musculus

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<210> 20
<211> 162
<212> PRT
<213> Homo sapiens
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<400> 20

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Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
 1           5           10           15
Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
          20           25           30
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
          35           40           45
Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Glu Glu
          50           55           60
Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp Pro Ser Thr
65           70           75           80
His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn Gly Glu Ser Ser
          85           90           95
Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile Ser Gly Thr
          100          105          110
Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu Asp Glu Leu
          115          120          125
Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp Lys Leu Cys
          130          135          140
Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Ile Ser His Asp
145          150          155          160
Glu Leu

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<210> 21

<211> 162

<212> PRT

<213> Mus musculus

<400> 21

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Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
 1           5           10           15
Glu Leu Glu Trp Glu Ile Ala Arg Val Asp Pro Lys Lys Thr Ile Gln
          20           25           30
Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
          35           40           45
Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Leu Glu Glu
          50           55           60
Val Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile Asp Pro Ser Thr
65           70           75           80
His Arg Lys Asn Tyr Val Arg Val Val Ser Arg Asn Gly Glu Ser Ser
          85           90           95
Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp Ile Ser Gly Thr
          100          105          110

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Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr Glu Asp Glu Leu  
           115                          120                          125  
 Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys Asp Lys Leu Cys  
           130                          135                          140  
 Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His Arg Ser His Asp  
 145                          150                          155                          160  
 Glu Leu

<210> 22  
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 <212> DNA  
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<400> 22  
 tcgcgcgaga gtttgag 18

<210> 23  
 <211> 18  
 <212> DNA  
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<400> 23  
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<210> 24  
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 <212> PRT  
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<400> 24  
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 Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln  
           20                          25                          30  
 Met Gly Ser  
           35

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